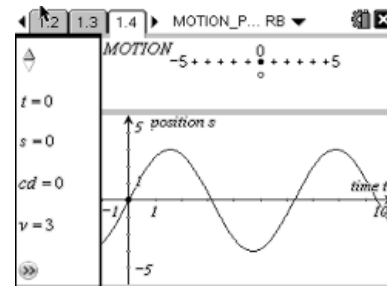


3.4a Position, Velocity, Acceleration

How is the position of the particle related to the graph?



How is the velocity of the particle related to the graph?

Sep 19-6:54 PM

position

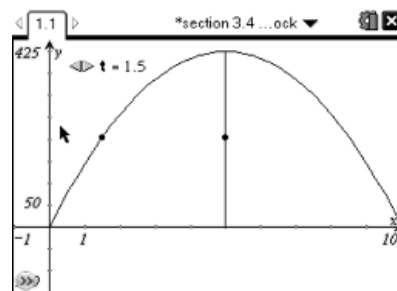
velocity

acceleration

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Ex 4 p130 A dynamite blast propels a heavy rock straight up with a launch velocity of 160 ft/ sec. It reaches a height of $s=160t-16t^2$ after t seconds.

Find a) max height, b) velocity and speed when height=256 c) acceleration d) hang time



section 3.4 dynamite rock.tns

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Ex 5 p131

A particle moves along a line so that its position at any time $t \geq 0$ is given by the function $s(t) = t^2 - 4t + 3$.

a) find the displacement during the first 2 seconds

b) find the average velocity during the first 4 seconds

c) find the instantaneous velocity when $t=4$

d) find the acceleration when $t=4$

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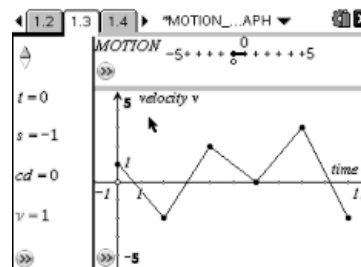
e) describe the motion of the particle

f) use parametric graphing to view the motion fo the particle

Sep 19-9:44 PM

position from velocity

A particle moves along a horizontal line. The graphs shows its velocity. Describe the motion of the particle.



Sep 19-9:46 PM